

CLAIMS

1. A steering locking device comprising a locking device for automatically locking a steering shaft when a key of an ignition switch is withdrawn in a state in which the key is withdrawable,

wherein a key mechanism section and said locking device of said ignition switch are provided separately, and the locking device is provided at any portion on an output shaft of a steering wheel extending from said steering wheel to a steering gear section.

2. A steering locking device according to Claim 1, wherein said locking device is provided at the steering gear section having a rack & pinion mechanism.

3. A steering locking device according to Claim 1, wherein said locking device is provided about a pinion shaft of said steering gear section.

4. A steering locking device according to Claim 1, wherein said locking device is provided on a side of an output shaft of a speed reduction unit of a column-type electric power steering apparatus.

5. A steering locking device according to Claim 4, wherein said locking device is provided on the output shaft of said speed reduction unit.

6. A steering locking device according to Claim 4, wherein said locking device is provided on a yoke connected to the output shaft of said speed reduction unit.

7. A steering locking device according to Claim 2 or 3, wherein said locking device is provided on a lower side of a rack shaft near a lower end of said pinion shaft of said steering gear section.

8. A steering locking device according to any one of Claims 1 to 3, wherein said locking device is integrally formed with said steering gear section.

9. A steering locking device according to Claim 3 or 5, wherein said locking device has a key lock collar, said key lock collar is formed on an output shaft of said steering wheel via a ring member such as a tolerance ring.

10. A steering locking device according to Claim 3 or 5, wherein said locking device has a key lock collar, said key lock collar is directly fixed to an output shaft of said

steering wheel by welding.

11. A steering locking device according to Claim 3 or 5, wherein a groove for a key lock is formed to an output shaft of said steering wheel.

12. A steering locking device according to Claim 1, wherein said locking device electrically makes a lock pin reciprocate based on a key information supplied via a harness connector.